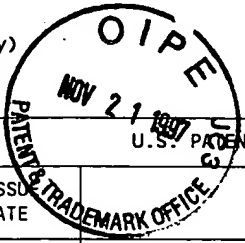


SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08830/007001		SERIAL NO. 08/837,301							
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Alasdair C. Steven et al									
				FILING DATE April 11, 1997		GROUP 1801 1641							
													
EXAMINER INITIAL		PATENT NUMBER		ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
LVC	AA	5	5	1	6	6	3	7	05/14/96	Huang et al.	435	6	6/10/1994
LVC	AB	5	4	0	3	4	8	4	04/04/95	Ladner et al.	435	235.1	1/26/1993
	AC												
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION													
		DOCUMENT NUMBER		PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION					
								YES NO					
	AD												
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)													
LVC	AE	Aebi et al., Capsid Fine structure of T-even Bacteriophages, Binding and Localization of Two Dispensable Capsid Proteins ..., J. Mol. Biol., 110: 687-698 (1977)											
LVC	AF	Aebi et al., Comparison of the Structural and Chemical Composition of Giant T-even Phage Heads, J. Supramol. Struct., 5:475-495 (1976)											
LVC	AG	Baldwin et al., Recent Advances in the Generation of Small-Molecule Combinatorial Libraries: Encoded Split Synthesis ..., Med. Research Rev., 16:391-405 (1996)											
LVC	AH	di Marzo Veronese et al., Structural Mimicry and Enhanced Immunogenicity of Peptide Epitopes Displayed on Filamentous Bacteriophage, J. Mol. Biol., 243:167-172 (1994)											
LVC	AI	Hogrefe et al., Cloning in a bacteriophage lambda vector for the display of binding proteins on filamentous phage, Gene, 137:85-91 (1993)											
LVC	AJ	Homyk et al., Deletion Analysis of Two Nonessential Regions of the T4 Genome, Virology 61:505-523 (1974)											
LVC	AK	Hong et al., An expression-packaging-processing vector which selects and maintains 7-kb DNA inserts Gene 136:193-198 (1993)											
LVC	AL	Iannolo et al., Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein, J. Mol. Biol., 248:835-844 (1995)											
LVC	AM	Ishii et al., The Two Dispensable Structural Proteins (SOC and hOC) of the T4 Phage Capsid; their Purification and Properties, ..., J. Mol. Biol. 109:487-514 (1977)											
LVC	AN	Ishii et al., Molecular Organization of the Shell of the ..., J. Mol. Biol., 97:655-660 (1975)											
EXAMINER <i>Olisa J. Cook</i>					DATE CONSIDERED 7/6/00 RECEIVED NOV 26 1997								
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				FILING DATE April 11, 1997		GROUP 1801 1641	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUANCE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	BB						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
LVC	BC		Ishii et al., Binding of the Structural Protein to the Head Shell of Bacteriophage T4, J. Mol. Biol. 120:533-544 (1978)				
LVC	BD		Jespers et al., Surface Expression and Ligand-Based Selection of cDNAs Fused to Filamentous Phage Gene VI, Bio Technology, 13:378-382 (1995)				
LVC	BE		Kishchenko et al., Structure of a Foreign Peptide Displayed on the Surface of Bacteriophage M13, J. Mol. Biol., 241:208-213 (1994)				
LVC	BF		Kitamura et al., Primary structure, gene organization and polypeptide expression of poliovirus RNA, Nature 291:547-553 (1981)				
LVC	BG		Krchnak et al., Bifunctional scaffolds as templates for synthetic combinatorial libraries, Mol. Diversity, 1:177-182 (1995)				
LVC	BH		Laman et al., Variant-Specific Monoclonal and Group-Specific Polyclonal Human Immunodeficiency Virus Type 1 Neutralizing Antibodies ..., J. Virol., 66:1823-1831 (1992)				
LVC	BI		Li et al., Poliovirus Neutralization by Antibodies to Internal Epitopes of VP4 and VP1 Results from Reversible Exposure ..., J. Virology, 68:3965-3970 (1994)				
LVC	BJ		Marks et al., Molecular Evolution of Proteins on Filamentous Phage, J. Biol. Chem., 267:16007-16010 (1992)				
LVC	BK		McCafferty et al., Phage antibodies: filamentous phage displaying antibody variable domains, Nature 348:552-554 (1990)				
LVC	BL		Orum et al., Efficient method for constructing comprehensive murine Fab antibody libraries displayed on phage, Nucl. Acids Res., 21:4491-4498 (1993)				
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CB						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
LVC	CC		Parmley et al., Antibody-selectable filamentous fd phage vectors: affinity purification of target genes, Gene 73:305-318 (1988)				
LVC	CD		Perham et al., Engineering a peptide epitope display system on filamentous bacteriophage, FEMS Microbiol. Rev., 17:25-31 (1995)				
LVC	CE		Ren et al., Phage display of intact domains at high copy number: A system based on SOC, the small outer capsid ..., Protein Science 5:1833-1843 (1996)				
LVC	CF		Ross et al., Assembly-dependent Conformational Changes in a Viral Capsid Protein, J. Mol. Biol. 183:353-364 (1985)				
LVC	CG		Skerra et al., Secretion and <i>in vivo</i> folding of the Fab fragment of the antibody McPC603 ..., Protein Engineering, 4:971-979 (1991)				
LVC	CH		Smith et al., A ribonuclease S-peptide antagonist discovered with a bacteriophage display library, Gene, 128:37-42 (1993)				
LVC	CI		Smith et al., Filamentous Fusion Phage: Novel Expression Vectors That Display Cloned Antigens ..., Science, 228:1315-1317 (1985)				
LVC	CJ		Steven et al., The Maturation-Dependent Conformational Change of the Major Capsid Protein of ..., Biochemistry, 29:5556-5561 (1990)				
LVC	CK		Steven et al., Structure of T4 Polyheads, J. Mol. Biology, 106:187-221 (1976)				
LVC	CL		Studier et al., Use of T7 RNA Polymerase to Direct Expression of Cloned Genes, Methods in Enzymology, 185:60-89 (1990)				
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				U.S. PATENT DOCUMENTS			
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	DB						
	DC						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	DD						
	DE						
	DF						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
LVC	DG	Van der Werf et al., Localization of a poliovirus type 1 neutralization epitope in viral capsid polypeptide VP1, Proc. Natl. Acad. Sci., 80:5080-5084 (1983)					
LVC	DH	Williamson et al., Human monoclonal antibodies against a plethora of viral pathogens from single combinatorial libraries, Proc. Natl. Acad. Sci., 90:4141-4145 (1993)					
LVC	DI	Wu et al., Reiterated Gene Amplifications at Specific Short Homology Sequences in Phage T4 Produce Hp17 Mutants, J. Mol. Biol., 218:705-721 (1991)					
	DJ						
EXAMINER Oliver L. Cook				DATE CONSIDERED 7/6/00			
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